



BRUHAT BANGALORE MAHANAGARA PALIKE
YALAHANKA ZONE, PROJECT DIVISION
BYTARAYANPURA

Name of Work: Construction of CC Drains and Roads in
Rachenahalli Village in Ward No.06

1st & PART BILL

TEST REPORTS



TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS

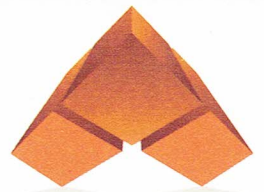
No.58 MIG, 6th Cross, 3rd Main

1st Stage, Basaveshwaranagar

Bangalore-560079

☎ 080 - 23287532

email: tejusconsultants@gmail.com



TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

FINE AGGREGATE (IS 2386 PART - 1)						
Type of Material		Fine aggregate (M sand)		Proposed Use	PCC	
Location/Source		2nd main road,Rachenahalli village		Date of Sampling	01-07-2020	
Period of Soaking		24 hours		Date of Testing	02-07-2020	
SL No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		651	646	675	
B	Weight of oven - dry sample gm.		650	628	666	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1690	1676	1698	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$		2.754	2.563	2.643	2.653
G	Absorption (%) $\frac{(A - B) * 100}{B}$		0.154	2.866	1.351	1.457

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.



Authorised Signatory

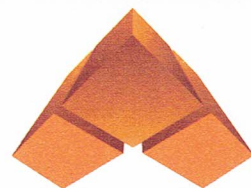
A.E.E. (Project)

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TEJUS CONSULTANTS

No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com



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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
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Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

FINE AGGREGATE (IS-2386-PART 3)					
Type of Material	Fine aggregate (M sand)		Proposed Use	PCC	
Location/Source	2nd main road,Rachenahalli village		Date of Sampling	01-07-2020	
Period of Soaking	24 hours		Date of Testing	02-07-2020	
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	651	646	675	
B	Weight of oven - dry sample gm.	650	628	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1690	1676	1698	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.754	2.563	2.643	2.653
G	Absorption (%) $\frac{(A - B) * 100}{B}$	0.154	2.866	1.351	1.457

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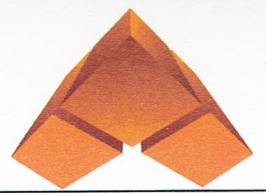
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Test Report on Cement

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	01.07.2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	548 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC		
Sample Location	2nd main road, Rachenahalli village	Date of Sampling	01-07-2020		
		Date of Testing	02-07-2020		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	219	219	7.30	92.70	90 - 100
2.36 mm	325	544	18.13	81.87	75 - 100
1.18 mm	432	976	32.53	67.47	55 - 90
0.600 mm	483	1459	48.63	51.37	35 - 59
0.300 mm	748	2207	73.57	26.43	8-30
0.150 mm	621	2828	94.27	5.73	0 - 10
Pan	172	3000			-

Remarks :

Satisfactory / Not Satisfactory

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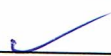


TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	2nd main road, Rachenahalli			Date of Sampling	01-07-2020
				Date of Testing	02-07-2020
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	85	85	2.83	97.17	95-100
20.00mm	1430	1515	50.50	49.50	30-70
10.00mm	986	2501	83.37	16.63	10-35
4.75mm	465	2966	98.87	1.13	0-5
Pan	34	3000	100.00	0.00	

Remarks :  Satisfactory / Not Satisfactory

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 A.E.E. (Project)

Job No.: CECTC-MT-IWD-072-2020-21

Date: 08.07.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Bruhat Bangalore Mahanagara Palike.
Contractor : Sri.P Hemanth (SOORYA CREATERS), Bangalore.
Name of Consultant : Tejus Consultants
Name of Work : Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06.
Sample Identification : 8mm, 10mm, 12mm. TMT Fe 500 Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 08.07.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	Elongation, percent on gauge length
1	8	0.396	519	557	15
2	10	0.618	531	570	17
3	12	0.888	546	582	18

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For Civil Experts

Abhilash
Authorised Signature

A.E.E. (Project)

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06							
Client	Bruhat Bangalore Mahanagar Palike							
Consultant	TEJUS CONSULTANTS							
Contractor	Sri. P Hemanth (SOORYA CREATERS)							
Grade of concrete:	M20							
Size of cube:	150x150x150 mm							
Reference IS code:	IS:516-1959							
Sample Location	14th cross road @ ch.165.00m LHS							
Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm ²	KN	N/mm ²	N/mm ²
1	10-07-2020	06-08-2020	28 days	8.139	22500	493	21.91	22.10
2	10-07-2020	06-08-2020	28 days	8.144	22500	498	22.13	
3	10-07-2020	06-08-2020	28 days	8.146	22500	501	22.27	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06							
Client	Bruhat Bangalore Mahanagar Palike							
Consultant	TEJUS CONSULTANTS							
Contractor	Sri. P Hemanth (SOORYA CREATERS)							
Grade of concrete:	M20							
Size of cube:	150x150x150 mm							
Reference IS code:	IS:516-1959							
Sample Location	14th cross road @ ch.165.00m LHS							
SLNo.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm ²	KN	N/mm ²	N/mm ²
1	10-07-2020	17-07-2020	7 days	8.125	22500	315	14.00	13.88
2	10-07-2020	17-07-2020	7 days	8.133	22500	310	13.78	
3	10-07-2020	17-07-2020	7 days	8.140	22500	312	13.87	

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A.E.E. (Project)



TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete		
Sample Location	14th cross road	Date of Sampling	10-07-2020		
		Date of Testing	11-07-2020		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	283	283	2.83	97.17	95 - 100
10.00 mm	4845	5128	51.28	48.72	25 - 55
4.75 mm	4227	9355	93.55	6.45	0 - 10
Pan .	645	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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A.E.E. (Project)

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	14th cross road		Date of Sampling	10-07-2020	
			Date of Testing	11-07-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	554	554	5.54	94.46	90-100
10.0	4656	5210	52.10	47.90	40-85
4.75	4456	9666	96.66	3.34	0-10
Pan	334	10000			

Remarks :  Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate M sand)	Proposed Use	concrete		
Sample Location	14th cross,rachenahalli	Date of Sampling	10-07-2020		
		Date of Testing	11-07-2020		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	316	531	17.70	82.30	75 - 100
1.18 mm	433	964	32.13	67.87	55 - 90
0.600 mm	458	1422	47.40	52.60	35 - 59
0.300 mm	747	2169	72.30	27.70	8-30
0.150 mm	632	2801	93.37	6.63	0 - 10
Pan	199	3000			-

Remarks :

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A.E.E. (Project)

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TEST REPORT

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Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)		Proposed Use	concrete	
Location/Source	14th cross,rachenahalli		Date of Sampling	10-07-2020	
Period of Soaking	24 hours		Date of Testing	11-07-2020	
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	649	674	663	
B	Weight of oven - dry sample gm.	646	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.669	2.702	2.613	2.661
G	Absorption (%) $\frac{(A - B) * 100}{B}$	0.464	0.597	2.315	1.125

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AB
AE
A.E.E. (Project)

TEST REPORT

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Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Material	Fine aggregate M sand)		Proposed Use	concrete	
Sample Location	14th cross,rachenahalli		Date of Sampling	12-07-2020	
			Date of Testing	13-07-2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
7.5 mm	218	218	7.27	92.73	90 - 100
3.36 mm	326	544	18.13	81.87	75 - 100
1.18 mm	438	982	32.73	67.27	55 - 90
600 mm	458	1440	48.00	52.00	35 - 59
300 mm	747	2187	72.90	27.10	8-30
150 mm	632	2819	93.97	6.03	0 - 10
pan	181	3000			-

Remarks :

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A.E.E (Project)

[Signature]

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TEST REPORT

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Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	14th cross road		Date of Sampling	12-07-2020	
			Date of Testing	13-07-2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	282	282	2.82	97.18	95 - 100
10.00 mm	4854	5136	51.36	48.64	25 - 55
4.75 mm	4326	9462	94.62	5.38	0 - 10
Pan	538	10000			

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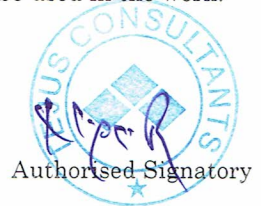

A.E.E. (Project)

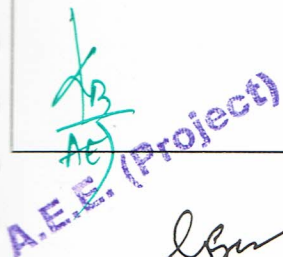
TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06							
Client	Bruhat Bangalore Mahanagar Palike							
Consultant	TEJUS CONSULTANTS							
Contractor	Sri. P Hemanth (SOORYA CREATERS)							
Grade of concrete:	M20							
Size of cube:	150x150x150 mm							
Reference IS code:	IS:516-1959							
Sample Location	14th cross road @ ch.90.00m RHS							
Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm ²	KN	N/mm ²	N/mm ²
1	12-07-2020	08-08-2020	28 days	8.138	22500	499	22.18	22.15
2	12-07-2020	08-08-2020	28 days	8.136	22500	496	22.04	
3	12-07-2020	08-08-2020	28 days	8.146	22500	500	22.22	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight:	10000 gms

SIEVE ANALYSIS

Sieve Analysis					
Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	14th cross road		Date of Sampling	12-07-2020	
			Date of Testing	13-07-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	553	553	5.53	94.47	90-100
10.0	4652	5205	52.05	47.95	40-85
4.75	4457	9662	96.62	3.38	0-10
Pan	338	10000			

Remarks : ☒ Satisfactory / Not Satisfactory

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

[Handwritten Signature]



Authorised Signatory

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)		Proposed Use	concrete	
Location/Source	14th cross,rachenahalli		Date of Sampling	12-07-2020	
Period of Soaking	24 hours		Date of Testing	13-07-2020	
Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	645	678	663	
B	Weight of oven - dry sample gm.	641	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.693	2.659	2.613	2.655
G	Absorption (%) $\frac{(A - B) * 100}{B}$	0.624	1.194	2.315	1.378

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(Signature)
A.E.E. (Project)

(Signature)
Authorised Signatory

(Signature)

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate M sand)	Proposed Use	concrete		
Sample Location	Jain heritage apartment road	Date of Sampling	15-07-2020		
		Date of Testing	16-07-2020		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	223	223	7.43	92.57	90 - 100
2.36 mm	332	555	18.50	81.50	75 - 100
1.18 mm	433	988	32.93	67.07	55 - 90
0.600 mm	432	1420	47.33	52.67	35 - 59
0.300 mm	747	2167	72.23	27.77	8-30
0.150 mm	632	2799	93.30	6.70	0 - 10
Pan	201	3000			-

Remarks :

✓ Satisfactory / Not Satisfactory

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AE
J.E.E. (Project)

[Signature]

[Signature]
Authorised Signatory